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*Admitted only in Virginia
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Federal Agencies

October 11, 2002

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Commissioner for Patents
Washington, D.C. 20231

Hand-Carry to
Art Unit 1653

Re: U.S. Utility Patent Application
Appl. No. 09/998,780; Filed: December 3, 2001
For: Endotoxin Binding and Neutralizing Protein and Uses Thereof
Inventors: Wainwright *et al.*
Our Ref: 1413.001000B/RWE/MTT

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Information Disclosure Statement;
2. List of cited references on Form PTO-1449 (19 sheets);
3. A copy of each reference cited on Form PTO-1449 (83 references);
4. First Supplemental Information Disclosure Statement;
5. List of cited references on Form PTO-1449 (1 sheet);
6. A copy of each reference cited on Form PTO-1449 (1 reference);
7. Second Supplemental Information Disclosure Statement;
8. List of cited references on Form PTO-1449 (2 sheets);
9. A copy of each reference cited on Form PTO-1449 (7 references);
10. Third Supplemental Information Disclosure Statement;
11. List of cited references on Form PTO-1449 (10 sheets);
12. A copy of each reference cited on Form PTO-1449 (32 references); and
13. One (1) Return Postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

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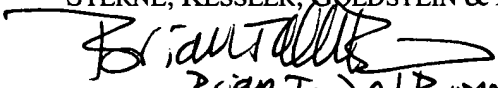
Commissioner for Patents
October 11, 2002
Page 2

necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.


for: Brian J. Del Buono
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RWE/MTT/dnk
Enclosures

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re application of:

Wainwright *et al.*

Appl. No. 09/998,780

Filed: December 3, 2001

For: **Endotoxin Binding and
Neutralizing Protein and Uses
Thereof**

Confirmation No. 7532

Art Unit: 1653

Examiner: *To Be Assigned*

Atty. Docket: 1413.001000B/RWE/MTT

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Information Disclosure Statement

Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each document is provided.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following, concise explanation of the relevance of the non-English language documents AM1, AO1, and AP1 cited on Form PTO 1449:

Document AM1, European Patent Publication No. EP 0 056 210 A2 is in the French language. An English language abstract of document AM1 is attached as document AT27 in Applicants' Third Supplemental Information Disclosure Statement filed herewith.

Document AO1, Japanese Patent Publication No. JP 59-27828 is in the Japanese language. An English language abstract of document AO1 is attached as document AR19.

Document AP1, Japanese Patent Publication No. JP 59-28474 is in the Japanese language. An English language translation of document AP1 is attached as document AR28 in Applicants' Third Supplemental Information Disclosure Statement filed herewith.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on

information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

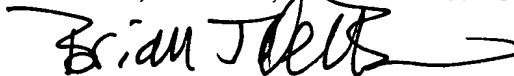
This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono
Reg. No. 42,473

for: Robert W. Esmond
Attorney for Applicants
Registration No. 32,893

Date: October 11, 2002

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1413.001000B/RWE/MTT		APPLICATION NO. 09/995,780		<div style="border: 2px solid black; padding: 5px; font-weight: bold; font-size: 1.2em;">RECEIVED</div>	
		APPLICANT Wainwright et al.				<div style="border: 2px solid black; padding: 5px; font-weight: bold; font-size: 1.2em;">OCT 15 2002</div>	
		FILING DATE December 3, 2001				GROUP 165	

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE	
	AA1	3,944,391	03/16/1976	Harris et al.			12/27/1974
	AB1	4,107,077	08/15/1978	Sullivan, Jr. et al.			08/12/1977
	AC1	4,188,264	02/12/1980	Iwanaga et al.			11/01/1977
	AD1	4,273,557	06/16/1981	Juranas			03/31/1980
	AE1	4,357,142	11/02/1982	Schall, Jr. et al.			07/18/1980
	AF1	4,652,639	03/24/1987	Stabinsky			05/06/1982
	AG1	4,713,347	12/15/1987	Mitchell et al.			01/14/1985
	AH1	4,758,655	07/19/1988	Houghten			07/09/1987
	AI1	4,780,529	10/25/1988	Hao			06/16/1987
	AJ1	4,906,567	03/06/1990	Connelly			01/21/1987
	AK1	4,918,163	04/17/1990	Young et al.			04/24/1986

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
	AL1	GB 2 019 563	10/31/1979	Great Britain			Yes No
	AM1	0 056 210	07/21/1982	Europe		X	Yes No
	AN1	WO 83/02123	06/23/1983	PCT			Yes No
	AO1	JP 59-027828	02/14/1984	Japan		X	Yes No
	AP1	JP 59-028474	02/15/1984	Japan			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	1	Aketagawa, J., et al., "Primary Structure of Limulus Anticoagulant Anti-lipoplysaccharide Factor," <i>J. Biol. Chem.</i> 261:7357-7365, The American Society of Biological Chemists, Inc. (1986)
	AS	1	Aldrich Chemical Company, Inc., Catalogue entitled <i>Aldrich Fine Chemicals</i> , p. 1115 (1986)
	AT	1	Alpert, G., et al., "Endotoxin Binding Protein (EBP) Protects Rabbits from Meningococcal Endotoxic Shock," <i>Pediatric Res.</i> 27:165A, Abstract No. 973, Lipincott Williams & Wilkins (April 1990)

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1413.001000B/RWE/MTTAPPLICATION NO.
09/998,780APPLICANT
Wainwright et al.FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2	4,977,085	12/11/1990	Sprague et al.	435	212	02/29/1984
	AB2	5,001,048	03/19/1991	Taylor et al.	435	4	06/05/1987
	AC2	5,057,598	10/15/1991	Pollack et al.	530	387	02/01/1989
	AD2	5,068,314	11/26/1991	Nakamura et al.	530	317	08/19/1989
	AE2	5,089,274	02/18/1992	Marra et al.	424	534	01/22/1990
	AF2	5,171,739	12/15/1992	Scott	514	12	05/05/1991
	AG2	5,179,006	01/12/1993	Matuura	435	23	02/23/1989
	AH2	5,316,991	05/31/1994	Baek et al.	435	7.9	01/06/1989
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2	0 206 783	12/30/1986	Europe			Yes No
	AM2	0 224 830	06/10/1987	Europe			Yes No
	AN2	0 279 517	08/24/1988	Europe			Yes No
	AO2	WO 89/12644	12/28/1989	PCT			Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>2</u>	Alpert, G., et al., "Limulus Antilipopolysaccharide Factor Protects Rabbits from Meningococcal Endotoxin Shock," <i>J. Infect. Dis.</i> 165:494-500, The University of Chicago Press (March 1992)
	AS	<u>2</u>	Brade, L., et al., "Characterization of Murine Monoclonal and Murine, Rabbit, and Human Polyclonal Antibodies against Chlamydial Lipopolysaccharide," <i>Infect. Immun.</i> 58:205-213, American Society for Microbiology (January 1990)
	AT	<u>2</u>	Case, M.J., et al., "Detection of Endotoxin in Antibiotic Solutions with <i>Limulus</i> Amoebocyte Lysate," <i>Antimicrob. Agents Chemother.</i> 23:649-652, American Society for Microbiology (1983)

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	APPLICANT Wainwright et al.	
	FILING DATE December 3, 2001	GROUP 1653

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>3</u>	Chia, J.K.S., et al., "Lipopolysaccharide (LPS)-Reactive Monoclonal Antibodies Fail to Inhibit LPS-Induced Tumor Necrosis Factor Secretion by Mouse-Derived Macrophages," <i>J. Infect. Dis.</i> 159:872-880, The University of Chicago Press (May 1989)
	AS	<u>3</u>	Danner, R.L., et al., "Purification, Toxicity, and Antidotoxin Activity of Polymyxin B Nonapeptide," <i>Antimicrob. Agents Chemother.</i> 33:1428-1434, American Society for Microbiology (September 1989)
	AT	<u>3</u>	Dawson, M.E., et al., "Microbes, Endotoxins and Water," <i>Pharm. Eng.</i> 8:9-12, International Society Of Pharmaceutical Engineers (March/April 1988)

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1413.001000B/RWE/MTTAPPLICATION NO.
09/998,780**RECEIVED**APPLICANT
Wainwright et al.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>4</u>	Dayhoff, M.O., et al., "A Model of Evolutionary Change in Proteins," <i>Atlas of Protein Sequence and Structure</i> 5:88-99, National Biomedical Research Center (1972)
AS	<u>4</u>	Desch, C.E., et al., "Antilipopolysaccharide Factor from Horseshoe Crab, <i>Tachypleus tridentatus</i> , Inhibits Lipopolysaccharide Activation of Cultured Human Endothelial Cells," <i>Infect. Immun.</i> 57:1612-1614, American Society for Microbiology (May 1989)
AT	<u>4</u>	Dunn, D.L., et al., "Protective Capacity of Polyclonal and Monoclonal Antibodies Directed Against Endotoxin During Experimental Sepsis," <i>Arch. Surg.</i> 123:1389-1393, American Medical Association (November 1988)

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1413.001000B/RWE/MTT	APPLICATION NO. 09/998,780	RECEIVED OCT 15 2002
	APPLICANT Wainwright et al.		
	FILING DATE December 3, 2001	GROUP 1653	TECH CENTER 1600/2900

U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	<u>5</u>	Garcia, C.T., et al., "Effect of Endotoxin Neutralizing Protein (ENP) on Gram Negative Sepsis in a Rabbit Model," <i>Ped. Res.</i> 29:117A, Abstract No. 1012, Lippincott Williams & Wilkins (April 1991)	
AS	<u>5</u>	Gould, M.C., "Endotoxin in Vertebrate Cell Culture: Its Measurement and Significance," in <i>In Vitro Monograph 5</i> , Tissue Culture Association, Rockville, MD, pp. 125-136 (1984)	
AT	<u>5</u>	Iwanaga, S., et al., "Primary Structure of Anti-Lipopolysaccharide Factor from American Horseshoe Crab, <i>Limulus polyphemus</i> ," in <i>International Symposium on Pyrogen</i> , Haijun, Z., ed., Xiamen (Amoy), China, pp. 84-87 (June 1987)	

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1413.001000B/RWE/MTT	APPLICATION NO. 09/998,786	RECEIVED OCT 15 2002 TECH CENTER 1600/2900
	APPLICANT Wainwright et al.		
	FILING DATE December 3, 2001	GROUP 1653	

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	6	Janshekar, H., and Fiechter, A., "Lignin: Biosynthesis, Application, and Biodegradation," in <i>Advances in Biochemical Engineering/ Biotechnology: Pentoses and Lignin</i> , Fiechter, A., ed., Springer-Verlag, New York, NY, pp. 120-126 (1983)
	AS	6	Kawasaki, H., et al., "Analysis of Endotoxin Fever in Rabbits by Using a Monoclonal Antibody to Tumor Necrosis Factor (Cachectin)," <i>Infect. Immun.</i> 57:3131-3135, American Society for Microbiology (October 1989)
	AT	6	Kupperman, N., et al., "Recombinant Endotoxin Neutralizing Protein from <i>L. polyphemus</i> Reduces Mortality from <i>E. coli</i> Sepsis in Rat Model," <i>Ped. Res.</i> 31:32A, Abstract No. 176, Lippincott Williams & Wilkins (May 1992)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	2	Liang, S.-M., et al., "Studies on <i>Limulus</i> Amoebocyte Lysate: III. Purification of an Endotoxin-Binding Protein from <i>Limulus</i> Amoebocyte Membranes," <i>J. Biol. Chem.</i> 255:5586-5590, American Society of Biological Chemists, Inc. (1980)
AS	2	Liang, S.-M., et al., "Studies on <i>Limulus</i> Amoebocyte: Isolation and Identification of a Membrane-Bound Protein Activator of Cyclic Nucleotide Phosphodiesterase from <i>Limulus</i> Amoebocyte," <i>J. Biol. Chem.</i> 256:4968-4972, The American Society of Biological Chemists, Inc. (1981)
AT	2	McCartney, A.C., "The <i>Limulus</i> amoebocyte lysate assay for bacterial endotoxins," <i>Chem. Abstr.</i> 105:185, Abstract No. 73795j, American Chemical Society (1986)

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	AN						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	8	McKenna, T.M., "Recovery of vascular tissue contractile function during sustained endotoxin exposure," <i>Am. J. Physiol.</i> 263:H1628-H1631, American Physiological Society (November 1992)
AS	8	Minetti, C.A.S.A., et al., "Purification and Characterization of an Endotoxin-Binding Protein with Protease Inhibitory Activity from <i>Limulus</i> Amebocytes," <i>J. Biol. Chem.</i> 266:20773-20780, The American Society for Biochemistry and Molecular Biology, Inc. (November 1991)
AT	8	Morita, T., et al., "Isolation and Biological Activities of <i>Limulus</i> Anticoagulant (Anti-LPS Factor) which Interacts with Lipopolysaccharide (LPS)," <i>J. Biochem.</i> 97:1611-1620, Japanese Biochemical Society (1985)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>2</u>	Muta, T., et al., "Primary Structure of Anti-Lipopolysaccharide Factor from American Horseshoe Crab, <i>Limulus polyphemus</i> ," <i>J. Biochem.</i> 101:1321-1330, Japanese Biochemical Society (June 1987)
	AS	<u>2</u>	Nachum, R., et al., "Inactivation of Endotoxin by <i>Limulus</i> Amoebocyte Lysate," <i>J. Invert. Pathol.</i> 32:51-58, Academic Press, Inc. (1978)
	AT	<u>2</u>	Nakamura, S., and Levin, J., "Endotoxin-Mediated <i>Limulus</i> Proclotting Enzyme Activator and Detection of a Previously Undescribed Protease (Protease N)," <i>Biochem. Biophys. Res. Comm.</i> 108:1619-1623, Academic Press, Inc. (1982)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1413.001000B/RWE/MTT	APPLICATION NO. 09/998,888
	APPLICANT Wainwright et al.	
	FILING DATE December 3, 2001	GROUP 1653

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	10	Novitsky, T.J., et al., "Instrumentation - A New Approach For Monitoring Bacteria: The Kinetic LAL Assay," in <i>Ultrapure Water</i> , (reprinted) Associates of Cape Cod, Inc. (November/December 1985)
AS	10	Novitsky, T.J., "Monitoring and Validation of High Purity Water Systems with the Limulus Amoebocyte Lysate Test for Pyrogens," <i>Pharm. Eng.</i> (reprinted) International Society of Pharmaceutical Engineers (March/April 1984)
AT	10	Novitsky, T.J., and Roslansky, P.F., "Quantification of Endotoxin Inhibition in Serum and Plasma Using a Turbidimetric LAL Assay," in <i>Bacterial Endotoxins: Structure, Biomedical Significance, and Detection with the Limulus Amebocyte Lysate Test</i> , Cate, J.T., et al., eds., Alan R. Liss, Inc., New York, NY, pp. 181-193 (1985)

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1413.001000B/RWE/MTTAPPLICATION NO.
09/998,780APPLICANT
Wainwright et al.FILING DATE
December 3, 2001GROUP
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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>11</u>	Novitsky, T.J., et al., "Turbidimetric Method for Quantifying Serum Inhibition of <i>Limulus</i> Amoebocyte Lysate," <i>J. Clin. Microbiol.</i> 20:211-216, American Society for Microbiology (1985)
	AS	<u>11</u>	Obayashi, T., et al., "Endotoxin-inactivating activity in normal and pathological human blood samples," <i>Chem. Abstr.</i> 105:458, Abstract No. 95431q, American Chemical Society (1986)
	AT	<u>11</u>	Obayashi, T., et al., "Endotoxin-Inactivating Activity in Normal and Pathological Human Blood Samples," <i>Infect. Immun.</i> 53:294-297, American Society for Microbiology (1986)

EXAMINER

DATE CONSIDERED

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1413.001000B/RWE/MTT APPLICANT Wainwright et al. FILING DATE December 3, 2001	APPLICATION NO. 09/998,780 GROUP 1653
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>12</u>	Ooi, C.H., et al., "Endotoxin-neutralizing Properties of the 25 kD N-Terminal Fragment and a Newly Isolated 30 kD C-Terminal Fragment of the 55-60 kD Bacterial/Permeability-increasing Protein of Human Neutrophils," <i>J. Exp. Med.</i> 174:649-655, The Rockefeller University Press (September 1991)
	AS	<u>12</u>	Ramadori, G., et al., "Biosynthesis of Lipopolysaccharide-Binding Protein in Rabbit Hepatocytes," <i>Pathobiol.</i> 58:89-94, S. Karger AG (March-April 1990)
	AT	<u>12</u>	Saladino, R., et al., "Effect of an Endotoxin Neutralizing Protein in an <i>E. coli</i> Sepsis Model in the Rabbit," <i>Pediatric Res.</i> 31:35A, Abstract No. 195, Lippincott Williams & Wilkins (April 1992)

EXAMINER	DATE CONSIDERED
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1413.001000B/RWE/MTT	APPLICATION NO. 09/998,784
	APPLICANT Wainwright et al.	
	FILING DATE December 3, 2001	GROUP 1653

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>13</u>	Salles, M.-F., et al., "Protective Effects of Murine Monoclonal Antibodies in Experimental Septicemia: <i>E. coli</i> Antibodies Protect Against Different Serotypes of <i>E. coli</i> ," <i>J. Infect. Dis</i> 159:641-647, The University of Chicago Press (April 1989)
AS	<u>13</u>	Scheifele, D.W., et al., "Evaluation of the <i>Limulus</i> test for endotoxemia in Neonates with Suspected Sepsis," <i>J. Pediatrics</i> 98:899-903, C.V. Mosby Co. (1981)
AT	<u>13</u>	Siber, G.R., et al., "Effect of a recombinant endotoxin neutralizing protein from <i>Limulus polyphemus</i> on Gram-negative sepsis," in <i>Bacterial Endotoxin: Recognition and Effector Mechanisms</i> , Levin, J., et al., eds., Elsevier Science Publishers B.V., Amsterdam, The Netherlands, pp. 379-386 (June 1993)

EXAMINER	DATE CONSIDERED
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1413.001000B/RWE/MTTAPPLICATION NO.
09/998,780APPLICANT
Wainwright et al.FILING DATE
December 3, 2001GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>14</u>	Sigma® Chemical Company, Catalogue entitled <i>Biochemicals, Organic Compounds and Diagnostic Reagents for Research</i> , St. Louis, MO, p. 1539 (1991)
	AS	<u>14</u>	Sofer, G. and Britton, V.J., "Designing an Optimal Chromatographic Purification Scheme for Proteins," <i>BioTechniques</i> 1:198-203, Eaton Publishing Co. (1983)
	AT	<u>14</u>	Sullivan, J.D., et al., "Comparison of the <i>Limulus</i> Amoebocyte Lysate Test with Plate Counts and Chemical Analyses for Assessment of the Quality of Lean Fish," <i>Appl. Env. Microbiol.</i> 45:720-722, American Society for Microbiology (1983)

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1413.001000B/RWE/MTT	APPLICATION NO. 09/998,780
	APPLICANT Wainwright et al.	
	FILING DATE December 3, 2001	GROUP 165

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OCT 15 2002

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U.S. PATENT DOCUMENTS							
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	15	Tallon, M.A., et al., "Synthesis and Biological Activity of Amino Terminus Extended Analogues of the α Mating Factor of <i>Saccharomyces cerevisiae</i> ," <i>Biochem.</i> 26:7767-7774, American Chemical Society (December 1987)
AS	15	Tanaka, S., et al., " <u>Limulus</u> Anti-LPS Factor: An Anticoagulant Which Inhibits the Endotoxin-Mediated Activation of <u>Limulus</u> Coagulation System," <i>Biochem. Biophys. Res. Comm.</i> 105:717-723, Academic Press, Inc. (1982)
AT	15	Tune, B.M., et al., "Effects of Anti-Lipid A Human Monoclonal Antibody on Lipopolysaccharide-Induced Toxicity to the Kidney," <i>J. Urol.</i> 141:1463-1466, Williams & Wilkins (June 1989)

EXAMINER	DATE CONSIDERED
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1413.001000B/RWE/MTT APPLICANT Wainwright et al. FILING DATE December 3, 2001	APPLICATION NO. 09/998,800 GROUP 1653
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	<u>16</u>		Wainwright, N.R., et al., "Endotoxin binding and neutralizing activity by a protein from <i>Limulus polyphemus</i> ," in <i>Cellular and Molecular Aspects of Endotoxin Reactions</i> , Nowotny, A., et al., eds., Elsevier Science Publishers, B.V., Amsterdam, The Netherlands, pp.315-325 (January 1990)
AS	<u>16</u>		Wainwright, N.R., et al., "Endotoxin Binding and Neutralizing Activity by a Protein from <i>Limulus polyphemus</i> ," <i>Int. Congr. Ser. Excerpta Med.</i> 923:315-325, Elsevier Science B.V. (January 1990)
AT	<u>16</u>		Wainwright, N.R., "Endotoxin Binding Protein for Treatment of Septic Shock," <i>Gov. Rep. Announc. Index</i> 91:172, Abstract No. 143,719, U.S. Department of Commerce National Technical Information Service (August 1991)

EXAMINER	DATE CONSIDERED
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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1413.001000B/RWE/MTT	APPLICATION NO. 09/998,780	<div style="font-size: 2em; font-weight: bold; transform: rotate(-5deg);">RECEIVED</div> <div style="font-size: 1.5em; font-weight: bold; margin-top: 5px;">OCT 15 2002</div> <div style="font-size: 1.2em; font-weight: bold; margin-top: 5px;">TECH CENTER 1600/2900</div>
	APPLICANT Wainwright et al.		
	FILING DATE December 3, 2001	GROUP 1653	

U.S. PATENT DOCUMENTS							
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>17</u>	Warren, H.S., et al., "Endotoxin Neutralizing Capacity of Sera from Different Patient Populations Assessed by the Limulus Lysate Test," in <i>Detection of Bacterial Endotoxins with the Limulus Amebocyte Lysate Test</i> , Watson, S.W., et al., eds., Alan R. Liss, Inc., New York, NY, pp. 341-348 (September 1987)
	AS	<u>17</u>	Warren, H.S., et al., "Binding and Neutralizing of Endotoxin by Limulus Antilipopolysaccharide Factor," <i>Infect. Immun.</i> 60:2506-2513, American Society for Microbiology (June 1992)
	AT	<u>17</u>	Weary, M. and Pearson III, F. "A Manufacturer's Guide to Depyrogenation," <i>BioPharm</i> , pp. 22-29, Aster Pub. (April 1988)

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1413.001000B/RWE/MTT	APPLICATION NO. 09/998780	RECEIVED OCT 15 2002 TECH CENTER 1600/2900
	APPLICANT Wainwright et al.		
	FILING DATE December 3, 2001	GROUP 1653	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>18</u>	Williams, T.J., et al., " <u>Limulus</u> Anti-LPS Factor Reduces Lethality of Endotoxin <u>in vivo</u> and Blocks Effects on Vascular Contractility <u>in vitro</u> ," in <i>Abstracts of the First Congress of the International Endotoxin Society</i> , Nowotny, A., et al., eds., Excerpta Medica, New York, NY, p. 82, Abstract No. III-P-64 (May 1990)
	AS	<u>18</u>	International Search Report for the corresponding PCT Application, No. PCT/US92/03983, mailed July 28, 1992
	AT	<u>18</u>	European Search Report for corresponding European Appl. No. EP 95201582.4, dated July 2, 1996

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1413.001000B/RWE/MTT	APPLICATION NO. 09/998,789
	APPLICANT Wainwright et al.	
	FILING DATE December 3, 2001	GROUP 1653

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	19	English Abstract for Japanese Patent Document No. J59027828 (Doc Ref. A01), Derwent Accession Nos. 84-072449/12 and 84-05155
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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OCT 15 2002

TECH CENTER 1600/2900

In re application of:

Wainwright *et al.*

Appl. No. 09/998,780

Filed: December 3, 2001

For: **Endotoxin Binding and
Neutralizing Protein and Uses
Thereof**

Confirmation No. 7532

Art Unit: 1653

Examiner: *To Be Assigned*

Atty. Docket: 1413.001000B/RWE/MTT

First Supplemental Information Disclosure Statement

Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 is a document that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this First Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Information Disclosure Statement filed herewith in connection with the above-captioned application. A copy of the document is also provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

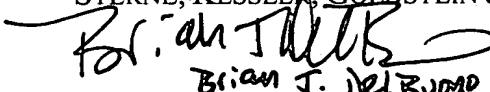
Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

This First Supplemental Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

Consideration of the cited document and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.


for: Robert W. Esmond
Attorney for Applicants
Registration No. 32,893
Brian J. DelBuono
Reg. No. 42,473

Date: October 11, 2002

1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934
(202) 371-2600

FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1413.001000B/RWE/MTT	APPLICATION NO. 09/998,754
	APPLICANT Wainwright et al.	
	FILING DATE December 3, 2001	GROUP 1653

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR		
	AS	19	Brake, A.J., et al., "α-Factor-directed synthesis and secretion of mature foreign proteins in <i>Saccharomyces cerevisiae</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 81:4642-4646, National Academy of Science of the USA (1984)
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EXAMINER	DATE CONSIDERED
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re application of:

Wainwright *et al.*

Appl. No. 09/998,780

Filed: December 3, 2001

For: **Endotoxin Binding and
Neutralizing Protein and Uses
Thereof**

Confirmation No. 7532 OCT 15 2002

Art Unit: 1653 TECH CENTER 1600/2900

Examiner: *To Be Assigned*

Atty. Docket: 1413.001000B/RWE/MTT

Second Supplemental Information Disclosure Statement

Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Second Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' First Supplemental Information Disclosure Statement filed herewith in connection with the above-captioned application. A copy of each document is also provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

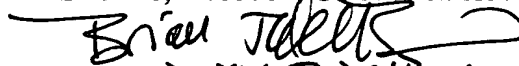
Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

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Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.


Brian J. DelBuono
Reg. No. 42,473

for: Robert W. Esmond
Attorney for Applicants
Registration No. 32,893

Date: October 11, 2002

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Washington, D.C. 20005-3934
(202) 371-2600

FORM PTO-1449 <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1413.001000B/RWE/MTT	APPLICATION NO. 09/998,780
	APPLICANT Wainwright et al.	
	FILING DATE December 3, 2001	GROUP 1653

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Page 1 of 2
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AI2	5,594,113	01/14/1997	Wainwright et al.			06/22/1994
	AJ2	5,614,369	03/25/1997	Wainwright et al.			06/07/1995
	AK2	5,627,266	05/06/1997	Wainwright et al.			06/07/1995

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP2	WO 92/03535	03/05/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
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EXAMINER	DATE CONSIDERED
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA3	5,747,455	05/05/1998	Wainwright et al.			08/30/1996
	AB3	5,780,429	07/14/1998	Wainwright			12/22/1995
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL3	WO 92/20715	11/26/1992	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re application of:

Wainwright *et al.*

Appl. No. 09/998,780

Filed: December 3, 2001

For: **Endotoxin Binding and
Neutralizing Protein and Uses
Thereof**

Confirmation No. 7532

OCT 15 2002

Art Unit: 1653

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Examiner: *To Be Assigned*

Atty. Docket: 1413.001000B/RWE/MTT

Third Supplemental Information Disclosure Statement

Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Third Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Second Supplemental Information Disclosure Statement filed herewith in connection with the above-captioned application. A copy of each document is also provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

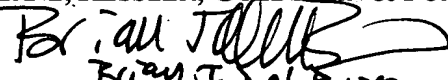
Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

This Third Supplemental Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.


Brian J. Del Buono
Reg. No. 42,473
for: Robert W. Esmond
Attorney for Applicants
Registration No. 32,893

Date: October 11, 2002

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	APPLICANT Wainwright et al.		
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AB						
	AC3	4,546,082	10/08/1985	Kurjan et al.			06/17/1982
	AD3	4,576,745	03/18/1986	Monsigny			09/09/1982
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN3	WO 92/20715 A1	11/26/1992	WIPO			Yes No
	AO3	WO 97/23235 A1	07/03/1997	WIPO			Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR		
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	AT	19	Aoki, H., et al., "Treatment of Sepsis by Extracorporeal Elimination of Endotoxin Using Polymyxin B-Immobilized Fiber," Am. J. Surg. 167:412-417, Excerpta Medica, Inc. (April 1994)

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U.S. PATENT DOCUMENTS

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	AM						Yes No
	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	20	Alpert, G., et al., "Limulus Antilipopolysaccharide Factor Protects Rabbits from Meningococcal Endotoxin Shock," <i>J. Infect. Dis.</i> 165:494-500, University of Chicago Press (March 1992)
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	AL						Yes No
	AM						Yes No
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	AR	21	Chia, J.K.S., et al., "Lipopolysaccharide (LPS)-Reactive Monoclonal Antibodies Fail To Inhibit LPS-Induced Tumor Necrosis Factor Secretion by Mouse-Derived Macrophages," <i>J. Infect. Dis.</i> 159:872-880, University of Chicago Press (May 1989)
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FORM PTO-1449 <u>THIRD SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1413.001000B/RWE/MTT	APPLICATION NO. 09/998,180	RECEIVED OCT 15 2002 TECH CENTER 1600/2900
	APPLICANT Wainwright et al.		
	FILING DATE December 3, 2001	GROUP 1653	

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FOREIGN PATENT DOCUMENTS							
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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AR	22	Hoess, A., et al., "Cyclic Peptides Derived from Limulus Anti-LPS Factor Bind Endotoxin with High Affinity," in <i>Vaccines 96, Molecular Approaches to the Control of Infectious Diseases</i> , Brown, F., et al., eds., Cold Spring Harbor Laboratory Press, Plainview, NY, pp. 121-125 (June 1996)	
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	23	Kluger, M.J., et al., "Polymyxin B Use Does Not ensure Endotoxin-Free Solution," <i>J. Immunol. Meth.</i> 83:201-207, Elsevier Science B.V. (1985)
	AS	23	LaPorte, D.C., et al., "Inhibition of <i>Escherichia coli</i> Growth and Respiration by Polymyxin B Covalently Attached to Agarose Beads," <i>Biochem.</i> 16:1642-1648, The American Chemical Society (1977)
	AT	23	Matsudaira, P., "Sequence from Picomole Quantities of Proteins Electrophoretically Blotted onto Polyvinylidene Difluoride Membranes," <i>J. Biol. Chem.</i> 262:10035-10038, The American Society of Biological Chemists, Inc. (July 1987)

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FORM PTO-1449 THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1413.001000B/RWE/MTT	APPLICATION NO. 09/998,189
	APPLICANT Wainwright et al.	
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>24</u>	Novitsky, T.J., and Gould, M.J., "Inactivation of Endotoxin by Polymyxin B," in Depyrogenation, Chapter 10, PDA Technical Report No. 7, Parenteral Drug Assoc. Inc., Philadelphia, PA, pp. 93-97 (1986)
	AS	<u>24</u>	Pang, S.-Z., et al., "Expression of a gene encoding a scorpion insectotoxin peptide in yeast, bacteria and plants," Gene 116:165-172, Elsevier Science B.V. (July 1992)
	AT	<u>24</u>	Siber, G.R., et al., "Reply," J. Infect. Dis. 166:682-683, The University of Chicago Press (September 1992)

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	AM						Yes No
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	AR	25	Singh, A., et al., "Saccharomyces cerevisiae contains two discrete genes coding for the α -factor pheromone," Nucl. Acids Res. 11:4049-4063, IRL Press Ltd. (1983)
	AS	25	Southgate, V.J., et al., "Expression and Secretion of <i>Bacillus amyloliquefaciens</i> α -Amylase by Using the Yeast Pheromone α -Factor Promoter and Leader Sequence in <i>Saccharomyces cerevisiae</i> ," Appl. Env. Microbiol. 59:1253-1258, American Society for Microbiology (April 1993)
	AT	25	Talmadge, K.W., and Siebert, C.J., "Efficient Endotoxin Removal with a New Sanitizable Affinity Column: Affi-Prep Polymyxin," J. Chromatog. 476:175-185, Elsevier Science B.V. (August 1989)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>26</u>	Tani, T., et al., "Endotoxin Removed from Hemoglobin Solution Using Polymyxin-B Immobilized Fibre (PMX-F) Followed by a New Turbidometric Endotoxin Assay," Biomat. Artif. Cells Immob. Biotechnol. 20:457-462, Marcel Dekker, Inc. (1992)
	AS	<u>26</u>	Van Brunt, J., "Biosensors for Bioprocesses," Bio/Technology 5:437-440, Nature Publishing (May 1987)
	AT	<u>26</u>	Vedvick, T., et al., "High-level secretion of biologically active aprotinin from the yeast <i>Pichia pastoris</i> ," J. Ind. Microbiol. 7:197-202, Elsevier Science (April 1991)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	27	Yoshida, K., and Ozawa, A., "Quantitative Assay of Endotoxin Using Fluorescent Probe," <i>Nippon Shokakibyō Gakkai Zasshi</i> 82:52-58, The Japanese Society of Gastroenterology (1985)
AS	27	Zsebo, K.M., et al., "Protein Secretion from <i>Saccharomyces cerevisiae</i> Directed by the Prepro- α -factor Leader Region," <i>J. Biol. Chem.</i> 261:5858-5865, The American Society of Biological Chemists, Inc. (1986)
AT	27	Dialog File 351, Accession No. 1982-61860E/198230, Derwent WPI English language abstract for European Patent Publication No. EP 0 056 210 A2 (Document AM1)

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	AN						Yes No
	AO						Yes No
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	AR	28	English language translation of Japanese Patent Publication No. JP 59-28474 (Document AP1)
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